

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 09/17/2019 09:39 AM  
**Cytometer Baseline:** 04/24/2019 12:37 PM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 80996 **Expiration Date:** 04/30/2020  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 124294              | -1                        | 1.14                    | 124384                  | 1.13                 |
| Blue   | F        | SSC         | 125000       | 124174              | -1                        | 1.95                    | 124967                  | 1.94                 |
| Blue   | E        | FITC        | 16122        | 15563               | -4                        | 2.73                    | 340                     | 19.59                |
| Blue   | D        | PE          | 29316        | 28780               | -2                        | 1.93                    | 628                     | 14.51                |
| Blue   | B        | PerCP-Cy5-5 | 42590        | 41954               | -2                        | 3.70                    | 1127                    | 20.31                |
| Blue   | A        | PE-Cy7      | 33146        | 33419               | 0                         | 6.03                    | 640                     | 40.28                |
| Red    | C        | APC         | 45473        | 45088               | -1                        | 2.38                    | 1594                    | 12.21                |
| Red    | A        | APC-Cy7     | 31961        | 30855               | -4                        | 2.30                    | 817                     | 12.12                |
| Violet | B        | V450        | 7914         | 7470                | -6                        | 5.55                    | 417                     | 14.07                |
| Violet | A        | V500        | 29769        | 28812               | -4                        | 5.46                    | 670                     | 10.90                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 20716                   | 3.48                 | 608  | 8      | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 56480                   | 1.38                 | 554  | 16     | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 62                      | 63.54                | 540  | 3      | 0.0216 | 178  | Pass |
| Blue   | D        | PE          | 130                     | 49.42                | 543  | 6      | 0.1694 | 277  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 208                     | 49.06                | 647  | 9      | 0.0091 | 40   | Pass |
| Blue   | A        | PE-Cy7      | 118                     | 99.47                | 700  | 9      | 0.0111 | 14   | Pass |
| Red    | C        | APC         | 379                     | 25.18                | 587  | 8      | 0.0237 | 114  | Pass |
| Red    | A        | APC-Cy7     | 180                     | 28.47                | 562  | 6      | 0.0053 | 673  | Pass |
| Violet | B        | V450        | 63                      | 62.90                | 468  | 8      | 0.0482 | 2162 | Pass |
| Violet | A        | V500        | 100                     | 32.79                | 480  | 8      | 0.0243 | 736  | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.98 - 71.98    | N/A          | N/A                     | -32.45                 | -32.01                          | 0.97                |
| Blue   | 20.35      | 16.27 - 24.41    | 1.27         | 0.99 - 1.49             | 0.00                   | 0.00                            | 1.50                |
| Red    | 16.70      | 13.60 - 20.40    | N/A          | N/A                     | 29.55                  | 29.98                           | 1.19                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 11621

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.60

Comments